

**Claim Amendments:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A ceramic article, comprising:  
a substrate consisting essentially of alumina; and  
a corrosion-resistant coating provided on the substrate and consisting essentially of a rare earth oxide, the corrosion-resistant coating directly contacting the substrate such that the ceramic article is free of intervening layers between the substrate and the corrosion-resistant coating, the corrosion-resistant coating having an adhesion strength not less than about ~~[[15]]~~ 20 MPa.
2. (Original) The article of claim 1, wherein the ceramic article comprises a component of a semiconductor processing apparatus.
3. (Original) The article of claim 2, wherein the component is a chamber wall.
4. (Original) The article of claim 3, wherein the component is a chamber lid.
5. (Original) The article of claim 3, wherein the component is a chamber sidewall.
6. (Canceled)
7. (Original) The article of claim 1, wherein the corrosion resistant layer has an adhesion strength of not less than 25 MPa.
8. (Original) The article of claim 1, wherein the corrosion resistant layer has an adhesion strength of not less than 30 MPa.
9. (Original) The article of claim 1, wherein the corrosion resistant layer is deposited on the ceramic base material by thermal spraying.

10. (Original) The article of claim 1, wherein the corrosion resistant layer consists essentially of yttria.

11. (Original) The article of claim 1, wherein the corrosion resistant coating has an average grain size not greater than about 0.5 microns.

12. (Original) The article of claim 1, wherein the substrate consists essentially of  $\alpha$ -alumina.

13. (Original) A ceramic article, comprising:  
a substrate consisting essentially of alumina;  
a corrosion-resistant coating provided on the substrate and consisting essentially of a rare earth oxide, the corrosion-resistant coating having an adhesion strength not less than about 15 MPa and an average grain size not greater than about 0.5 microns.

14. (Original) The article of claim 13, wherein the average grain size is not greater than about 0.3 microns.

Claims 15-40 (Canceled)

41. (New) A ceramic article, comprising:  
a substrate consisting essentially of alumina; and  
a corrosion-resistant coating provided on the substrate and comprising at least 80 wt.% of a rare earth oxide, the corrosion-resistant coating directly contacting the substrate such that the ceramic article is free of intervening layers between the substrate and the corrosion-resistant coating, the corrosion-resistant coating having an adhesion strength not less than about 20 MPa.

42. (New) The ceramic article of claim 41, wherein the corrosion-resistant coating comprises at least 90 wt.% of the rare earth oxide.

43. (New) The ceramic article of claim 42, wherein the corrosion-resistant coating comprises at least 95 wt.% of the rare earth oxide.